

Notice of Allowability

Application No.

09/747,436

Examiner

John Pezzlo

Applicant(s)

TRAVOSTINO ET AL.

Art Unit

2662

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to amendment filed 1 July 05.
2. ☒ The allowed claim(s) is/are 1-46.
3. ☒ The drawings filed on 26 February 2001 are accepted by the Examiner.
4. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 - a) ☐ All b) ☐ Some* c) ☐ None of the:
 1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

* Certified copies not received: _____.


Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.

THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

5. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
 6. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
 - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
 - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date _____.
 - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
7. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

1. ☒ Notice of References Cited (PTO-892)
2. ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3. ☐ Information Disclosure Statements (PTO-1449 or PTO/SB/08), Paper No./Mail Date _____
4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material
5. ☐ Notice of Informal Patent Application (PTO-152)
6. ☐ Interview Summary (PTO-413), Paper No./Mail Date _____
7. ☒ Examiner's Amendment/Comment
8. ☒ Examiner's Statement of Reasons for Allowance
9. ☐ Other _____


JOHN PEZZLO
PRIMARY EXAMINER

DETAILED ACTION

EXAMINER'S AMENDMENT

An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Lindsay G. McGuinness 24 August 2005.

The claims have been amended as follows:

1. Claim 1, line 8, inserted after "pre-established"-- PPP-over-Ethernet connection--.
2. Claim 1, line 9, inserted after "connection" and before comma "," -- established only between the access point and the back end device --.
3. Claim 1, line 9, deleted ", and wherein the pre-established communication connection is a PPP-over-Ethernet connection".
4. Claim 15, line 5, inserted after "device" -- using a pre-established PPPoE connection established only between the access point and the back end device, wherein the back end interface --.
5. Claim 15, line 5, deleted "that".

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6. Claim 15, line 7, deleted "on a pre-established PPPoE communication connection".
7. Claim 23, line 1, inserted after "program" --stored on a computer readable medium --.
8. Claim 23, line 7, deleted "on" and inserted -- using --.
9. Claim 23, line 8, inserted after "connection" -- established only between the access point and the back end device --.
10. Claim 31, line 6, inserted after "communication connection" -- established only between the access point and the back end device --.
11. Claim 39, line 1, inserted after "program" --stored on a computer readable medium --.
12. Claim 39, line 6, inserted after "communication connection" -- established only between the access point and the back end device --.

Reasons for Allowance

The following is an examiner's statement of reasons for allowance: Applicants have claimed the following uniquely distinct features in the instant invention, which are not found in the prior art, either singularly or in combination:

1. Regarding claim 1 – A wireless communication system comprising an access point device in communication with a back end device, the access point for wirelessly communicating with a terminal equipment device and the back end device for communicating with a host device,

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wherein the access point device and the back end device work in conjunction to implement a plurality of protocol layers of a wireless communication protocol for enabling communication between the terminal equipment device and the host device, and wherein the access point device is operably coupled to forward upper protocol layer information from the wireless protocol message to the back end device over a pre-established PPP-over-Ethernet connection communication connection established only between the access point and the back end device.

2. Regarding claim 15 – An access point device for use in a wireless communication system, the access point device comprising: a wireless interface implementing a lower protocol layer of a wireless communication protocol for exchanging wireless communication messages with a terminal equipment device, a back end interface for communicating with a back end device using a pre-established PPPoE connection established only between the access point and the back end device, wherein the back end interface implements upper protocol layers of the wireless communication protocol, and forwarding logic operably coupled to receive upper protocol layer information over one of said wireless interface and said back end interface and forward the upper protocol layer information over the other of said wireless interface and said back end interface.

3. Regarding claim 23 - A computer program stored on a computer readable medium for operating an access point device in a wireless communication system, the computer program comprising: wireless interface logic implementing a lower protocol layer of a wireless communication protocol for exchanging wireless communication messages with a terminal equipment device over a wireless interface, back end interface logic for communicating with a back end device that implements upper protocol layers of the wireless communication protocol

using a pre-established PPPoE communication connection established only between the access point and the back end device, and forwarding logic programmed to receive upper protocol layer information using one of said wireless interface logic and said back end interface logic and forward the upper protocol layer information using the other of said wireless interface logic and said back end interface logic.

4. Regarding claim 31 - A back end device for use in a wireless communication system/the back end device comprising: upper protocol layer logic implementing upper protocol layers of a wireless communication protocol, and an access point interface for exchanging upper protocol layer information with an access point device on a pre-established PPPoE communication connection established only between the access point and the back end device, wherein the access point receives wireless communications from a terminal equipment device and implements a lower protocol layer of the wireless communication protocol.

5. Regarding claim 39 - A computer program stored on a computer readable medium for operating a back end device in a wireless communication system, the computer program comprising: upper protocol layer logic implementing upper protocol layers of a wireless communication protocol, and access point interface logic for exchanging upper protocol layer information with an access point device on a pre-established PPPoE communication connection established only between the access point device and the back end device, wherein the access point device receives wireless communications from a terminal equipment device and implements a lower protocol layer of the wireless communication protocol over an access point interface.

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The closest prior art, either singularly or in combination, fail to anticipate or render the above limitations obvious.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Allowable Subject Matter

Claims 1-46 are allowable over the prior art of record.

Conclusion

Claims 1-46 being allowable, **Prosecution On The Merits Is Closed** in this application.

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

1. Rai et al. (US 6,675,208 B1) discloses a registration scheme for network.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to John Pezzlo whose telephone number is (571) 272-3090. The examiner can normally be reached on Monday to Friday from 8:30 AM to 4:30 PM.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Hassan Kizou, can be reached on (571) 272-3088. The fax phone number for the organization where this application or proceeding is assigned is (571) 272-8300.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (571) 272-2600.

Any response to this action should be mailed to:

Commissioner of Patents and Trademarks

Washington, D.C.

or faxed to:

(571) 272-8300

For informal or draft communications, please label "PROPOSED" or "DRAFT"

Hand delivered responses should be brought to:

Jefferson Building


2A15

500 Dulany Street

Alexandria, VA, 22313.

John Pezzlo

24 August 2005



JOHN PEZZLO
PRIMARY EXAMINER